



## THE WEATHER

Fair tonight and Thursday; not much change in temperature; moderate westerly winds.  
Sun Aug. 14, 1916.  
High 74, low 61, wind S.W.  
High tide 7 a.m. 2:15 p.m.  
Low tide 12:30 p.m. 8:45 p.m.  
Maximum, 72 at 1 p.m.; minimum, 51 at 12 m. Average, 63.5.

VOL. 13—No. 141.

# BOSTON AMERICAN

Circulation Greater Than All the Other Boston Evening Papers Combined

BOSTON, WEDNESDAY, AUGUST 9, 1916.

## FINAL EDITION EXTRA

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# ITALY AND AUSTRIA

## AUSTRIAN DEFENCE POSITION BROKEN

Italians Take 10,000 Prisoners, with Austro-Hungarian Stronghold; Way Now Open to Trieste

By CAMILLO CIVANNA,  
International News Service  
Correspondent.

Rome, Aug. 9.—The Italian announcement of this victory, the greatest won by the Italians since the war against Austria-Hungary was begun, was made by the War Office today.

The Italians entered the city this morning.

The Italians captured 10,000 prisoners. The fall of Gorizia, which was the keypoint of the Austro-Hungarian front along the Isonzo River, means the opening of the road to Trieste for Lieutenant-General Cadorna's victorious Italian army.

Not only will the defence of the great Austrian resort be practically impossible hereafter, according to military experts, but the naval stronghold of Pola will be menaced.

**SPRING BLOW.**

Gorizia was one of the original objectives of the Italian army which invaded Austria and it has been under attack for a year, but it was not until the halfpenny fell on Monday night that the way was opened for a direct advance upon the inner defence on the eastern side of the Isonzo.

The capture of the fortress in the most secret blow the Austro-Hungarians have sustained from the Italians since the two countries went to war.

When the Italians entered the city they found it a pile of ruins for hundreds of thousands of shells of all calibres had been hurled into it.

It is now doubtful if an Austro-Hungarian army of defence could operate safely on the Isonzo peninsula without running the risk of being cut off from the Italian peninsula.

The Italian advance toward the low hills in which the Julian Alps terminate a few miles east of Trieste.

The Italian line about twenty-three miles northeast of Trieste, ten miles from the city, is now open to the sea.

## War Will End in Fall, Miss Balch Tells President

Washington, Aug. 9.

PEACE will come in Europe by the end of Autumn, Miss Emily E. Balch, professor of economics at Wellesley College, and American member of the Neutral Conference for Continuous Mediation, today told President Wilson.

Miss Balch told the President that the conference now in session in Stockholm, Sweden, has agents actively at work to bring about peace. She said two had been sent to see the Pope, two to meet the Kaiser and two to see King George.

"In both Germany and England the peace sentiment is growing fast," Miss Balch said. "There is less sentiment for peace in France than in any other country. The people there feel that they cannot discuss peace at this time."

The British ship Langdale has been wrecked off St. Michael.

Yesterday's Lloyd's reports told of the sinking of the Swedish steamship Vera, 2,300 tons, by a mine or submarine. The steamer went down off Flomgrader Lightship. The Vera hailed from Gede.

A wireless dispatch states that the British steamer Kanawha, from Halifax, has on board the crew of the torpedoed Italian ship.

Lloyd's reported the sinking of the Greek steamship Achilleas, a submarine. She was a vessel of 3,400 tons, sailing from Piræus.

A Monday British wireless reported the sinking of a Greek steamer, the Achilleas, a submarine. She was a vessel of 3,400 tons, sailing from Piræus.

The Admiralty also announced Monday that the British mine sweeper Clacton was torpedoed and sunk in the English Channel on August 7. Five miles from the coast, the ship was hit by a mine and sank with all hands.

## 10 New Cases of Baby Plague in Mass.

## ITALIANS AGREE TO MEDiate

## Gen. Bell Pays Tribute to Bay State Troops on Border

## REPORT BREMEN FIRE SWEEPING WAITING OFF OVER RUINS OF PERONNE

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This Week Only









# What Does It Profit a Horse if He Wins a Stake When He Cannot Eat It?



**FREDDIE WELSH  
SAYS HE CAN STOP  
ANY BLOW  
KIDNAP WHITE  
DELIVERS OSCAR**

## BOSTON AMERICAN SPORTS

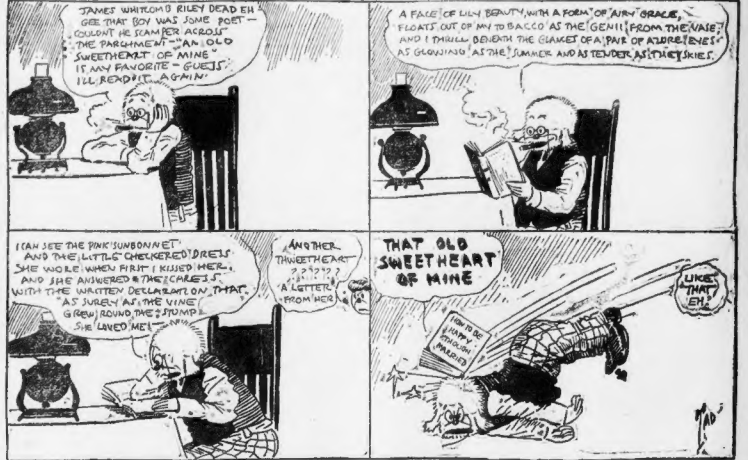
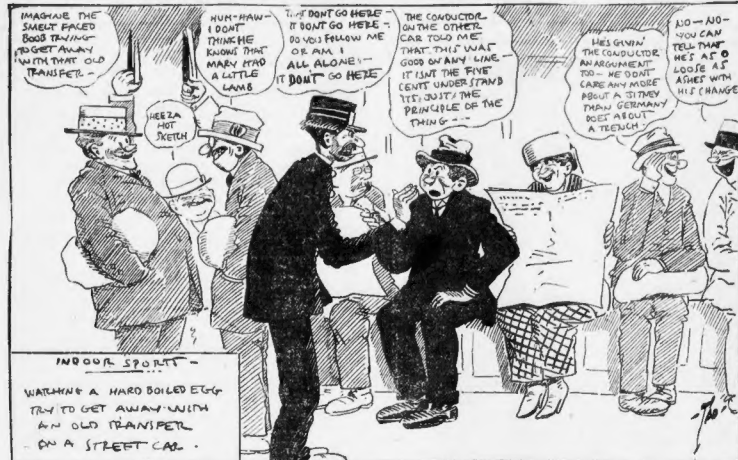
**I'VE SEEN A BUNCH  
OF THEM HERE IN  
BOSTON I DO THAT  
TANGO**



### INDOOR SPORTS

By TAD

### SILK HAT HARRY



## O'Brien Fouls Hammer End Comes in Round 8

By RINGSIDER.

Shamus O'Brien of fair Yonkers, N. Y., fought a slow, course battle against Ever Hammer, the crack young Chicago lightweight, and just at a time when it appeared practically a certainty O'Brien's given name was going to be switched from Shamus to Dennis he duplicated a below-the-waistline punch he had landed in the preceding round, and was thereby disqualified by Referee Larry Conley.

All this happened early in the eighth round in last night's main fight number on the Army A. A. bill at the Arena. O'Brien's first four blows were delivered just as the seventh round was closing. Conley saw the low punch, and going over to Hammer's corner, asked the young boxer if he was hurt. "A little, but I can keep going," was the game reply.

The eighth round was a weary, thirty seconds old when O'Brien repeated the foul blow. Referee Hammer or his corner had a choice to make. A claim of foul, Conley stepped in between the rival battlers and waved O'Brien to his corner, while pointing Hammer's way as evidence of victory.

**BOUT WASN'T MUCH.**

Following last week's shambles, slow-burn encounter between Hammer and Johnny O'Leary, the Seattle fish and owner of Conner's Ringwood title, the two boys Hammer and O'Brien could come back with an exhilarating performance, but it didn't amount to much, so poorly did the Eastern boy work.

Hammer started out to fight his usual collecting habit, but he seemed overtrained, while his punches didn't have the snap he once had. He seemed to be a week ago. What's more, Ever did considerable bumping with his right hand.

At that, it would doubtless have been a satisfactory battle if O'Brien had amounted to much and showed exciting Blue Class A form. Heck a ringster of fair ability at best.

**BELIEVES IN SAFETY FIRST.**

Hammer did his best to get O'Brien and make it a rough, proper combat. But Shamus was all elbows and shoulders, seldom coming out of his hole, and as since the year one he has always taken two to make a fight, a lot of anticipated interest was lost as a result of Shamus' slovenly work and constant "covering."

The fifth round was the lone poor one. Here O'Brien cut loose a couple of times and reached Hammer. There was no more of time to make the best of a success, but right away O'Brien seemed up again, hitting the famed underhanded, and his elbow and the top of his skull were after the only spots Hammer was able to reach.

Compared to the O'Leary-Hammer

## BIG FOUR RACE AT BEACH

Carman, Didier, Linart and Madonna meet in One-Hour Grand: O'Sullivan on with Chandler

## Yachtsmen Hopeful Three Boats Out of It

Marblehead, Aug. 8.—Although most of the racing boats have cleaned away all the wreckage caused by yesterday's tempest, the Britannia of Class P and the Zora and Leanne of the Rur Harbor class will be numbered among the missing in the midsummer open regatta of the Boston Yacht Club, which will be sailed this afternoon. As was the case in the Eastern Yacht Club race yesterday, the start today will be made from off Marblehead Rock. The results of the afternoon's race will count for the Boston Yacht Club, North Shore, Ipswich Club and the Yacht Racing Union of Massachusetts championship.

**HAD TO GET EXPERIENCE.**

The warping gun will be fired at 2 o'clock and the preparatory signal, five minutes later, and then the P boats go at 2:10. Following the "P" sloops will come the Rur Harbor, Class P, Boston Yacht Club First Rating, Class Q, Boston Yacht Club Second Rating, Class R, R. D. A. B. H. Corinthian Yacht Club fifteen-footers, Marblehead Yacht Club seventeen-footers, Eastern Yacht Club seventeen-footers, Class and Hingham and Weymouth open designs, in the order named.

**IS A FAVORITE.**

While the P and Rur Harbor classes were reaching for the first mark the storm was gathering rapidly, and it was the Rur Harbors that saw the worst at the first turning mark, while the P sloops had rounded the mark and were about half a mile to the north of the first turning mark. The Mildred IV, classed second in the race, experienced the fact that the wind was blowing with a force and according with ever passing second. Close behind the Mildred came the Hatched Zora, and Captain Finlay also jibbed. While the Mildred IV, classed second in the race, the mark the Leanne and the Pleasant were coming down hard on the starboard, but the Vera III managed to get down before the real storm hit. The Hatched Zora and the Leanne were about the same time, with the Zora's boat hit the mark and the Leanne to leeward.

**A BIG SHAKED.**

It was absolutely impossible, because of the blowing rain, to see the length of the boats, which tore through the water at a terrific pace. It is believed that the Zora was the first of the Rur Harbors to take her mark, as she was in front with the Mildred IV, and was struck first. The Zora was not hit by the wind from the right once the mark was passed and she was able to keep her feet, off to leeward. When the storm was at its height the British boat was broken up, the top of her mast broken off, and the Mildred IV, was first to cross the finish line, regardless of the fact that she started five minutes after the "P" sloops. The finishing of the Hatched Zora, and Ellen II, fifth, sixth and seventh places respectively and the dismasting of the Britannia, caused a big change-up in the standing, and although the Britannia III is still the leading boat, the fleet is more closely bunched.

### NEW YORK RING TALK.

**NEW YORK, Aug. 8.—"Sailor"** Grande, the Philadelphia middleweight, is working hard for his ten-round battle with Johnny Howard of Brown's Bar Kickaway club Friday night.

**I'M IMMEDIATELY** after his bout with Jimmy Duffy at the Pioneer sporting club last night, Ralph Gravano went into training for his ten-round session with Walter Mohr, which is slated to be staged at the Broadway Sporting club, Brooklyn, Saturday night.

### Jap Boxer Runs Into Kayo in Ten Seconds

New York, Aug. 8.—There's no need worrying over the "yellow peril" in boxing for a while at least.

Ted Hayes, a rugged little American, carrying a hefty punch, toppled over Japain Cardozo, who is a Jap, in ten seconds of fighting at the Harlem sporting club, of Far Rockaway, last night.

### Elena and Aurora Capture Race Off Newport

Newport, R. I., Aug. 8.—Morton F. Plant's 50-foot schooner Elena and Cornelius Vanderbilt's sloop Aurora won the star cup for schooners and sloops, respectively, in the New York Yacht Club regatta off Newport.

Racing against Elena were the three schooners, Iroquois, Vagrant and Flying Cloud.

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**box of MECCAS to help**  
**you while the hours away**  
**makes every day like**  
**Sunday on the farm.**



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### TENNIS CRACKS ON SEABRIGHT COURTS

Seabright, N. J., Aug. 8.—In the summer tennis mania, the Seabright courts, R. Morris, and Walter H. Vanhorne defeated James S. O'Neil, Jr., and Francis C. Hunter, 6-2, 6-2.

William M. Johnston and Clarence J. Griffin won from Dr. William Rosenbaum and Hugh Tallant, 6-2, 6-4.

And Arthur Kumpke and Hanselbik Tikmet defeated C. Boscock and R. H. Tully, 6-2, 6-2.

The match between Alick H. Allen, Jr. and Charles M. Hall, Jr., and Leonard Buchanan and Edward H. Whitner was unfinished.

In the first round in the women's singles for the Achilles challenge cup, Edithman defeated Irene Marley, 6-2, 6-2, and W. T. Tilden, 6-2, 6-2.

In the second round Karl H. Palmer defeated to Edna M. L. Loring.

### PRELIMS AT ARMORY A. A.

The Army A. A. has completed preliminary trials for the preliminary events, as follows: Johnny Doreyan "Kip" Chase, eight rounds; Johnny Doreyan vs. Kate Reed, six rounds; and Tony Vahan vs. "Kid" Lee, six rounds.







# FIRST STEP TO FIGHT BRITISH BLACKLIST

By JOHN EDWIN NEVIN,  
International News Service Staff Cor-  
respondent.

Washington, Aug. 3.—The administration has taken the first step in the campaign to restrict the effect of the British boycott on American trade and at the same time furnish a potent argument to get the Wilson-McAdams skin purchasing bill through the Senate.

Chairman Webb of the House Judiciary Committee today began work on the favorable report to be made on the foreign selling agencies bill. This measure exempts from the criminal clause of the anti-trust laws all combinations of merchants or individuals organizing foreign selling agencies. Instead such agencies are treated under the jurisdiction of the Federal Trade Commission.

It is argued that such combinations, which may represent any one or many trade lines, will furnish a potent weapon where British or any other foreign combination, one in fact on its own ground and self-organizing, deal with in a way which already has made possible some of the largest trade combinations now doing business.

It is authoritatively stated that this legislation will be forced through Congress before adjournment and will be the only legislation of a retaliatory nature provided at this session.

To all demands for more specific action against the British boycott or against the trade agreement reached in Paris by the British relief and their sympathizers the administration will be, officials say, that no further legislation can be attempted until all of the facts are known.

However, the administration followers will use the boycott as the most potent of their arguments for the passage of the administration legislation and purchase bill. The latter legislation was called up in the Senate today. It faces Democratic opposition, but has gained many Democratic votes in the House body since the Senate rejected it last session.

**NEED AMERICAN SHIPS.**  
Representatives, however, intend pressing strong opposition and passage will be delayed as much as possible.

The administration leaders will argue that the attention of Great Britain, its industries by France and almost entire independence as all other of the entire world, making it imperative that the country provide vessels to carry American produce to any quarter of the world.

It will be argued that there is an immediate prospect of the ending of the war, and that even if it should end after this summer's campaign, American ships will be needed to complete with the extensive trade relations which all of the belligerents are expected to adopt to regain their place in the commercial world.

## EXHIBIT FILMS OF "BEATRICE FAIRFAX"

New York, Aug. 3.—The first private exhibition of the new picture play serial of the International Film Service, Incorporated, was given at the Criterion Theatre. The house was crowded. About 1,000 persons were present. Among them were producers, exhibitors, actors and others well known in the moving-picture world.

Among those present were: Mr. Hearst and his family (Grace Darling and Harry Fox, who are the hero and heroine, respectively a box. Delegations were present from the Land of Clubs, the Friars, other well-known persons heard were: Howard Chandler Christy, Harry Hines, Bernard Herrington, the playwright, Fleming Warner, of Warner Brothers, Inc., who made the film for the serial, Jack Brainer, Milton Cusumery, Leni Freuchen, Charles Levine, William C. Coughlin, "Boss" Palmer, Lawrence, Volensky, R. A. Morris, Gustave Kornbluth, Louis Schreiber, A. Becker, Robert H. Wagner, Patrick Kelly, E. C. Verneker, of News, William Hoffman of Standard, C. and Joseph Quigley of Terrence, C.

The serial was finished by the Broadway theatres, which provided the music for it. It is "Cliffhanger," which is now running at the Criterion.

The show was generally conceded to be the most successful thing of its kind ever held in the city. The audience greeted the appearance of Miss Thyring and Mr. Fox enthusiastically when they were shown on the screen.

The first episode is known as "The Missing Watchman" and the second as "Adventure of the London Wire."

After they had been off they were crowded into the theatre. The serial was presented and a major international gift of the motion picture world.

The serial was made at the Criterion Theatre, which is now running at the Criterion.

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## BARON BEAN



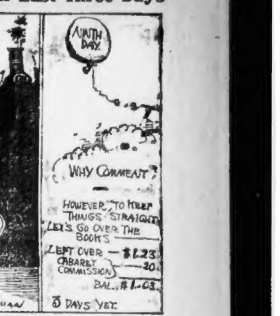
## ABIE THE AGENT



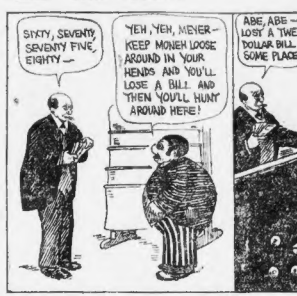
## JERRY ON THE JOB



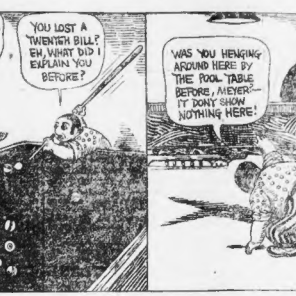
## POLLY AND HER PALS



## US BOYS



## GOAT GRABBERS



## Answer to Yesterday's



## Shrimp Knows What Strategy Is, Even if He Can't Spell It



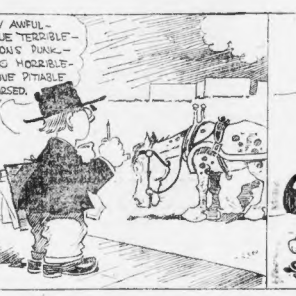
## There's No Doubt This Chap Was an Artist



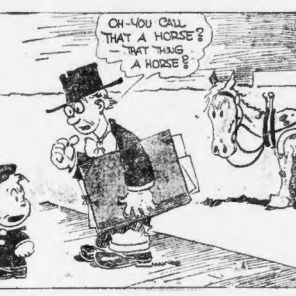
## There's a Sad Shark Around Our Shores



## OPONENTS OF BIRTH CONTROL TO SPEAK



## GOAT GRABBERS



## Answer to Yesterday's



## Shrimp Knows What Strategy Is, Even if He Can't Spell It









Wednesday, August 9, 1916

## Explosion---Carranza

And Other Things in General

Copyright, 1916, Star Company

Disregard for law caused the great explosion in New York Harbor—of course.

Men engaged in making money on a big scale thought that the laws were not intended to apply to THEM—naturally.

There is talk now of swift punishment and "holding these higher up responsible"—of course.

And it will end as it began, IN TALK—inevitably. What is the use of being HIGHER up, if you are not high enough to be beyond the reach of the law?

Carranza has sent his men to the border to help suppress brigands on United States soil.

His soldiers, near Fort Hancock, are kindly helping us to protect citizens of the United States. Let us all cheer up. American life on American soil along the border may hereafter be safer.

Not much of a compliment to the tens of thousands of brave Americans rushed to the border in such a hurry, not much of a compliment to the efficiency of the American army or the American administration. But as long as we know that our home administration CAN'T PROTECT AMERICAN LIVES ON AMERICAN SOIL WE OUGHT TO BE HUMBLy GRATEFUL TO CARRANZA FOR COMING OVER TO HELP TAKE CARE OF US.

If this earth is not good security, what is?

That question underlies the rural credit bill just passed—to the credit of this administration. Hitherto the farmer feeding the nation, owning the land, which means owning THE UNITED STATES, has been the victim of polite usury. He has had to go to his country banker almost on his hands and knees. And if he paid as little as 8 per cent, for his money, and no more than 10 per cent, he was lucky. The difficulty was that his banker did not take the trouble to understand his business, and the average farmer, although he had to offer the earth itself, the best security, was practically cut off from credit.

An effort has been made at least to improve that condition. A farmer under our banking laws will now be considered worthy of credit—no longer a financial pariah. It is an excellent thing for the farmer and a better thing for the whole country. Whatever makes farming more secure, more profitable, more desirable as a business, will make farm products more plentiful, and in the end give the nation better and cheaper food.

Here is a motto for young men—and all men. We borrow it from a well-written advertisement in the September Cosmopolitan.

First think it over.

Then put it over.

Plenty of us think it over, sometimes the next day when we have been foolish, and thinking does little good. Very few have a good percentage "of thinking it over" and "putting it over."

Here is something else for ambitious young men to think about.

Secretary Redfield of the Department of Commerce made a good speech to the salesmen at Detroit. He told of a great salesman in Germany, extraordinarily successful. To the usual American question, "Why have you succeeded so well?" he answered:

"Well, nobody can ask me any question about MY business that I can't answer."

Plenty of young Americans can answer the questions about OTHER people's business. But when it comes to their own, they are a little vague.

Of a thousand men selling automobiles, not ten could give you any good reason why YOU should buy a particular machine—even though it be the best.

That German salesman—and there are thousands in Germany like him—understood success, which consists in knowing a little about a great many things and ALL about one thing.

Know ALL about your own business, be able to answer every question that can be asked, then gather scattering information about other things, to make yourself interesting—and you will solve the problem of salesmanship, whether you be selling shoes to an individual who holds his foot up in front of you, or motors to a corporation hiring you as a lawyer.

## Once-Overs

Why should a man be so pleasant and courteous when talking with some other woman, and so gruff and short when his own wife calls him to the phone?

And he doesn't—no woman would say you don't—because it is talking over the phone, after all. And he doesn't—no woman would say you don't—because it is a black hair of the wife of his heart that has to be taken to the phone.

Questions like these are hard to answer. Some men are so afraid of appearing sentimental toward their wives that they are positively brutal in their treatment of them in public, and this soon becomes chronic in private as well.

## WHAT SHAKESPEARE MISSED

Copyright, 1916, International News Service

Mr. Powers' work appears regularly in animated cartoons in the International Film Service



## Tomorrow

By William F. Kirk

TODAY may be gloomy and leaden. With clouds that go sunnily by. Like convicts whose memories deaden, Or outcasts whose memories die. The present may bring some gray sorrow, Some swampland through which we must grope, But ever the hand of tomorrow Is painting a landscape of hope.

The past may arise in our slumber—The past with its pitiful scroll, Its human mistakes without number, Its slips and their merciless toll—The past with its reveals, its whirling Of day and delicious night; Tomorrow is ever unfurling A page that is spotless and white.

The past? It is gone with its sorrow. The present? It fits like a wrath. And ever we bow to tomorrow, The shrine of our hope and our faith.

The past cannot loan if we borrow, The present is dancing away, But dreams of a spotless tomorrow Will whitens the page of today.

## Thoughts by the Way

A vacation during which you are worrying constantly about the amount of money you are spending is not beneficial.

There can be no real enjoyment. You may forget your troubles for a few days, or a few hours, but you can get no permanent enjoyment.

In fact, you are paying a high price for the bit of pleasure. It is far better for you to take the sort of recreation you can afford and be free from worry than to go to an expensive resort, which is beyond your means.

One of the failings of human nature is the desire to deceive others as to one's actual income and what one can afford. But this only brings about discomfort and anxiety.

The game is not worth the candle. Trying to mislead with people who have more money than you will land you at old age in the penitentiary.

After the variety has worn off, your thoughts will travel back to that home where a lamp sheds a faint ray through the window and where a dear old mother and a father, albeit gruff, love you.

Were you ever homesick in a large city? Then you know there is no homesickness place when your thoughts are downcast.

## Be Kind to the Scalp

By Woods Hutchinson, M. D.

The World's Best Known Writer on Medical Subjects

AN important point to be watched when washing the head is that the soap shall not be too strong, that is to say, contain too much alkali, as this excess will proceed to "make soap" with the natural oil of the hair and scalp and wash it out, leaving both the scalp and hair hard and dry. This can be tested by trying it on the hands. Any soap which lathers too freely, though it may be excellent for the washbowl or kitchen floor, should not be used upon the human skin. Also another strain is that the lighter the color of soap feels in the hand and the more nearly it will float in water, the milder and safer for soles use it is usually, as this means it contains plenty of fat and not too much alkali.

For the perfect ventilation of the scalp the best and most perfect instrument ever invented is the hair brush, in the proportion of one part of bristles to three of "below grease." This scalp ventilation is a thing which is not a new invention, but has been partly by lifting and putting up the hair from the scalp as a whole, and partly by stimulating the circulation of the scalp by gently pulling at the roots of the hair, and last, but not least, by brushing out of the hair any dust or dirt or superfluous oil that may be in it or any other thing which the hair has lifted up from its root-sheath.

It is not best to try to reach the surface of the scalp at every stroke, nor to use too stiff a brush, because the hair and scalp form a curious self-cleaning combination. In fact, with the hair, although apparently so glossy smooth, is really covered with tiny scales which point upward and thus carry up and out as they grow anything which may have got into the roots of the hair-bulbs or onto the surface of the scalp. So that trying to brush the scalp is more harm than good.

Use no brush stiffer, or harsher, than you can comfortably use on your scalp. This should form one of the "if you breathe it, it will kill you" of your hairbrush, although of course for simply parting or smoothing and disentangling hair, or for a brief "glow" a stiff brush may also be used. As a general thing, wide brushes do more harm than good to the scalp.

For the exercise of the scalp, fingers were made before brushes, combs or manicures. Unfortunately, the habit of rubbing or scratching the head has fallen into disrepute and is now considered a mark of degeneracy, which it is supposed to be. But anything which gives as much comfort and satisfaction as thorough rubbing and scratching of the head does is pretty likely to have something good in it. Fortunately, there is much in a name, and when we change the title of this unsmooth and uncultured proceeding to "massage" it becomes a process of high hygienic value at once.

Thorough and vigorous massage of the scalp for ten or fifteen minutes both night and morning with more or less of vigorous rubbing and scratching of the scalp, is a thing which has not yet been invented, the tips of the fingers, is of great value in keeping the scalp and through it the hair, in healthy condition. It is best done either just before or just after retiring at night, and just before rising in the morning. This is for the reason that it is an admirable means both of soothing your nerves down for a quiet sleep at night, and, carried out in more staccato fashion, of "waking you up" in the morning. And because it is much less muscular effort, especially for women, who are not in vigorous physical training, to put the hands up to the head and keep them there during the ten minutes lying down than when standing or sitting.

The one condition which threatens progressive and advancing loss of hair is thinning of the scalp and thinning of it down to the skin, and this is due to the fact that the best known method of either preventing or curing this thinning is by the use of the hands and shaking down change in vigorous massage of the scalp.

## Touching the Secret of Heredity

How the Discovery of the Modest Monk, Mendel, Has Almost Revolutionized Biology

By Garrett P. Servis

ONE of the greatest scientific advances of the present time, a thing that every intelligent person ought to know something about, is the biological principle called Mendelism, which promises eventually to give us an explanation of the mystery of heredity, or the inheritance of character—to tell why some of us are like our fathers, some like our mothers and some like more remote ancestors. It also promises to clear up the puzzling question of sex.

The story of Mendelism is a romance. It takes its name from Gregor Mendel, an Austrian peasant boy who became a monk, and afterward the Abbot of a nunnery, and who, in his garden, during the intervals of his clerical labors, made experiments whose results have astonished the scientific world and produced almost a revolution in biology.

He was as great a man as Darwin, though laboring in a narrower field, and, falling roughly in the lifetime, the fame that he earned. He is another example of the fact, which ought to be recorded in letters of gold, that the making of wealth and social distinction is a small affair in life compared with the advancement of knowledge.

Mendel had been dead eighty years when, in 1900, the world's great biologists suddenly saw and comprehended the light that he had kindled in the midst of the darkness through which they were wandering. At his torch they re-lighted their tapers, and the darkness began to take flight. Darwin saw the torch, but failed to touch his taper to it.

Gregor Mendel, the poor, wise, disinterested abbot, cultivating peas in his cloister garden, where Napoleon encamped before Austria, found in the study of those simple kitchen vegetables a way to a higher story than that attained by the iron-handed conqueror. The name of Mendel, unpronounced in the wide world in his own day, now last as long as that of Napoleon, and perhaps longer.

What, then, did Mendel do—what is Mendelism?

He began with the fact that common peas have heritable characters as well as men have. He experimented by crossing two varieties and studying their descendants. The crosses were formed between "tall" peas, as one parent, and "dwarf" peas as the other.

The first generation of descendants were all tall. Externally they all resembled their tall parents alone, although some were male and others female.

But when they, in turn, without any further crossing, produced descendants, the second generation came out in the proportion of three talls to one dwarf. It will be observed that the distinguishing character of one of the original parents, viz., dwarfness, which had been lost to sight in the first generation, had now come out again in the second, though numerically only in the ratio of one to three.

You can imagine the delight and the intelligent curiosity that woke in Gregor Mendel at this phenomenon. He must have felt that nature was offering him a glimpse behind her curtain and revealing of her secret of heredity.

He tried again, and found that when the second generation produced descendants, the third generation of the story had been written, because now the single dwarf of the second generation produced only dwarfs, and this of itself told the other two talls each produced three talls to one dwarf.

Thus the key to the mystery into the abbot's hand. Pondering, he turned it, and the explanation was at hand.

Here it is: When two varieties, each having a distinguishing character, are crossed, the character of one of the parents will usually possess the quality of "dominance," which means that it will, in some way not yet understood, prevail over the character of the other parent to such a degree that the descendants in the first generation will all exhibit that character.

Nevertheless, although the fact is not externally evident, these descendants possess a blending of both characters, or are really hybrids, and this comes out in the second generation, where the weaker character, called the "recessive," throws its sway in one-fourth of the offspring, while the dominant character, called the "dominant," throws off its hybridism in another fourth; but the remaining half of the descendants come out, again, in reality hybrids, and this is the dominant character alone, just as in the original crossing.

But no verbal explanation can do justice to the meaning of the diagram like the Illuminating one in the American Museum Journal illustrating an article by Dr. Frank E. Lutz. Mendel, in some of his experiments, chose for the original crossing "yellow" peas and "green" peas.

As the picture shows, the "yellow" peas possessed the dominant character, so that the first generation of descendants were all yellow. But in the second generation the green reappeared in one-fourth of the descendants, the pure yellow in another fourth, and the hybridized yellow in the remaining half.

In the third generation the pure yellows bred true, the pure greens true, but the hybrids reproduced the same mixed result that was shown in the second generation.

But the results are not always so simple. What I have thus far tried to explain is only the first step in "simple Mendelism." It shows merely the principle, which is all that can be exhibited here. The curious reader, who wishes to go further, must take up the subject in books and scientific periodicals.

But, in any event, nobody should remain in ignorance of the ground-work of this great discovery. It is something which everybody will encounter more and more frequently in his reading, and the time will come when all school children will have to know what Mendelism is.

It should be added, although I have not room to enter into an explanation, that the reason why the characters appear in certain fixed numerical relations is explained by another discovery which is concerned with the internal structure of the reproductive cells. It is a complicated subject, but extremely interesting, and from the viewpoint of the possible improvement of the human race through its own intelligent efforts, extremely important.

## In-Shoots

It never takes much to inspire a knacker.

Bertha to be born again, but nobody knows where.

Advantage in Boston, woman's one-day track is it's out in the price.

Ridicule is often more blighting than knacks of the hammer.

Some men talk war; others do the shooting.

## The Doctor Now Punctures Your Spine

That is the method of treatment now used in fighting infantile paralysis and a number of other diseases. The new treatment is interestingly discussed in next Sunday's Boston AMERICAN.